

ZY-RV16-26 先导式溢流阀
ZY-RV16-26 Relief, Pilot-Operated Spool
描述 DESCRIPTION:

螺纹插装式, 二级先导型, 滑阀式溢流阀, 作为压力限制装置用于要求快速响应、低滞后的液压回路。

A screw-in, cartridge-style, pilot-operated (two-stage), spool-type hydraulic relief valve, intended for use as a pressure limiting device in demanding hydraulic circuits which require fast response and low hysteresis.

工作原理 OPERATION:

ZY-RV16-26 型, 常态下从 ① 流向 ② 封闭, 直到 ① 处受到足够的液压力使先导阀开启, 再推动主阀芯(第二级)移动, 使油液从 ① 流向 ②。

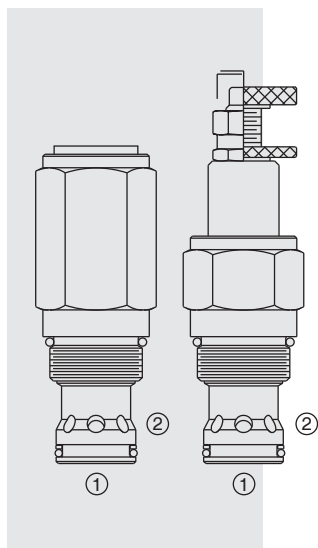
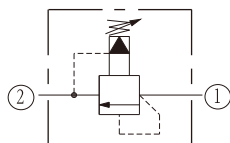
该阀对液压回路的负载变化作平滑过渡。

注: RV16-26 型不能用作交叉溢流阀。

The **ZY-RV16-26** blocks flow from 1 to 2 until sufficient pressure is present at 1 to force the piloting relief off its seat, allowing the main (second stage) spool to shift, opening 1 to 2.

The cartridge offers smooth transition in response to load changes in demanding hydraulic circuits.

NOTE: The ZY-RV16-26 cannot be used in cross-over relief applications.


机能符号 SYMBOLS:

特性 RATINGS:

工作压力: 275.8 bar (4000 psi)

流量: 参见性能图

内部泄漏: 在85% 的开启压力下测量泄漏. 当压力设置 < 138 bar (2000 psi) 时: 最大泄漏为 115 毫升/分钟 (7 立方英寸/分钟); 当压力设置 ≥ 138 bar (2000 psi) 时: 最大泄漏为 197 毫升/分钟 (30 立方英寸/分钟)。

开启压力定义: 当流量达到 0.95 lmp (0.25 gpm) 时的压力测量值 bar (psi)

闭合压力: 开启压力的90%;

标准弹簧压力范围: 03: 9.66~20.70 bar (140~300 psi)

06: 15.87~41.41 bar (230~600 psi)

15: 36.63~103.52 bar (530~1500 psi)

35: 82.82~241.55 bar (1200~3500 psi)

温度范围: -40°C~120°C

介质: 粘度介于 7.4~420 cSt (50~2000 sus) 的矿物油或具有润滑作用的合成油
阀孔: ZY-VC16-2;

Operating Pressure: 275.8 bar (4000 psi)

Flow: See Performance Chart

Internal Leakage: 115 cc/minute (7 cu. in./minute) max. for pressure settings below 138 bar (2000 psi); 197 cc/minute (30 cu. in./minute) for pressure settings of 138 bar (2000 psi) or higher. Leakage measured at 85% of nominal setting.

Crack Pressure Defined: bar (psi) evident at 7.61 lpm (2 gpm) attained

Reseat Pressure: Nominal 90% of crack pressure

Standard Spring Ranges: 03: 9.66–20.70 bar (140–300 psi);

06: 15.87–41.41 bar (230–600 psi);

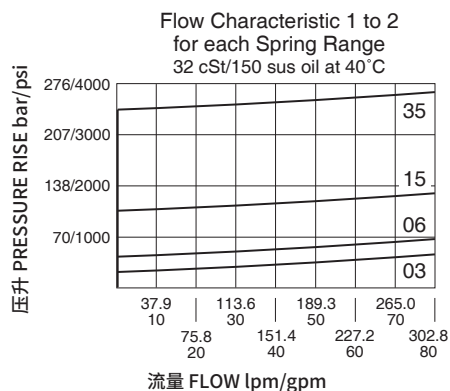
15: 36.63–103.52 bar (530–1500 psi);

35: 82.82–241.55 bar (1200–3500 psi)

Temperature: -40 to 120°C with standard Buna seals

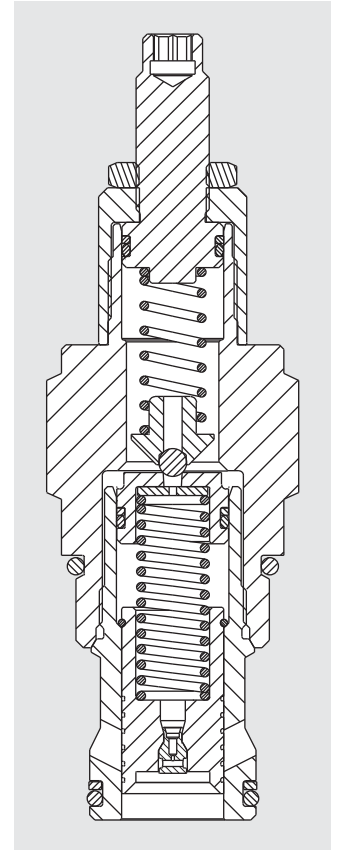
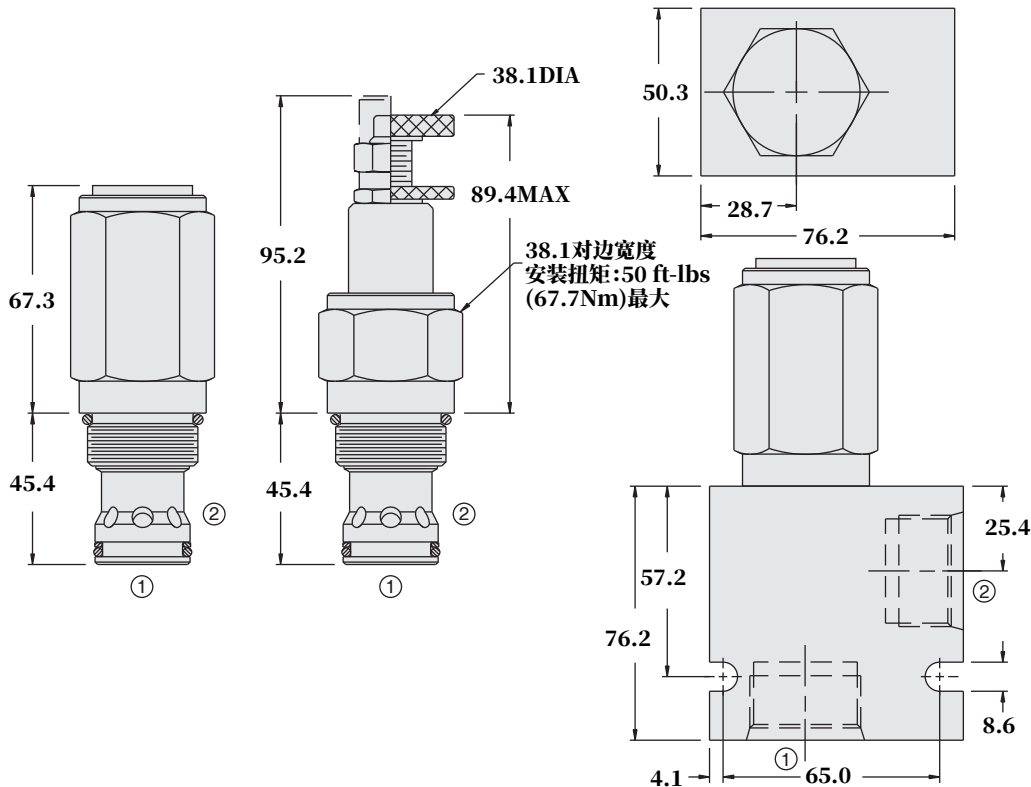
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus);

Cavity: ZY-VC16-2

性能图 PERFORMANCE: (Cartridge Only)


ZY-RV16-26

尺寸 DIMENSIONS:



特点 FEATURES:

- 调节装置不会旋出阀体。
- 调节器确保弹簧不会被压实。
- 阀芯和阀套硬质处理, 耐用。
- 可选可选压力范围达 240 bar (3500 psi)。
- 快速、平滑响应压力变化。

- Adjustments cannot be backed out of the valve.
- Adjustments prohibit springs from going solid.
- Hardened spool and cage for long life.
- Optional spring ranges to 275.8 bar (4000psi).
- Fast, smooth response to pressure surges.

订购型号 TO ORDER:

ZY-RV16-26

调节选项
Adjustment Option
S5内六角头 A
(S5 Hex Allen Head)
铝合金手柄 B
(Dia. Alum Knob)

(Porting) 阀块油口
(For ordering valve block models, see:6.0.0.00)
订购阀块型号请参见:6.0.0.00

(Seals)密封材料
仅指P上的压力:
Pressure on P Only:
Buna N(Sta)
N 丁腈橡胶(标准型)
V (Fluorocarbon)氟橡胶

设置(bar)
Setting in bar
(空白) 可调节或指定压力,
(Blank) for Adjustable, or Specify,
例如(for example):
M25 25 bar
M100 100 bar
设置(bar)
Setting in bar
(空白) 可调节或指定压力,
(Blank) for Adjustable, or Specify,
例如(for example):
9.0 900 psi
23.5 2350 psi
压力范围
Spring Range
03 9.7 to 20.7 bar
(140 to 300 psi)
06 15.9 to 41.4 bar
(230 to 600 psi)
15 36.6 to 103.5 bar
(530 to 1500 psi)
35 82.8 to 241.6 bar
(1200 to 3500 psi)

将可调节阀预设为该弹簧最大压力的50%。